

# WHEN YOU CANNOT COMPROMISE USE:

## FDI<sup>®</sup> - COATINGS

FDI<sup>®</sup> - LABYSTOP<sup>®</sup>  
Pat. pending

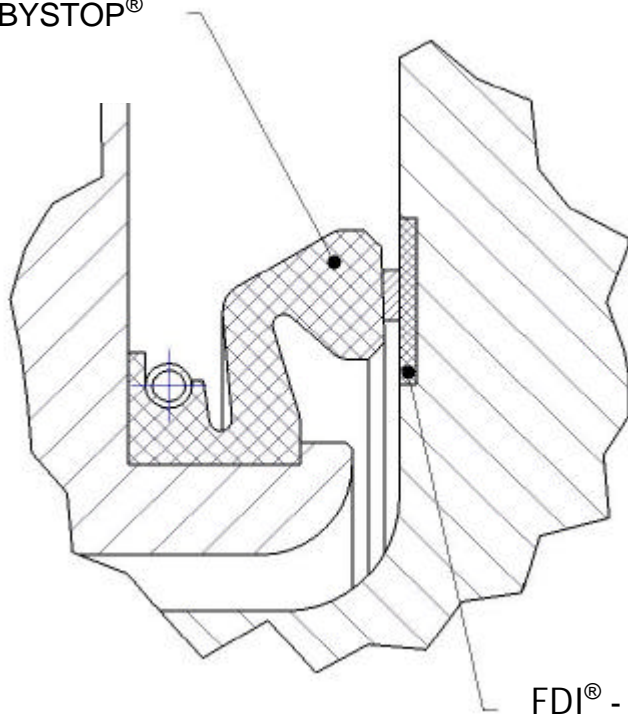


Figure 1

FDI<sup>®</sup> - COATING

FDI<sup>®</sup> - SHAFT SEAL

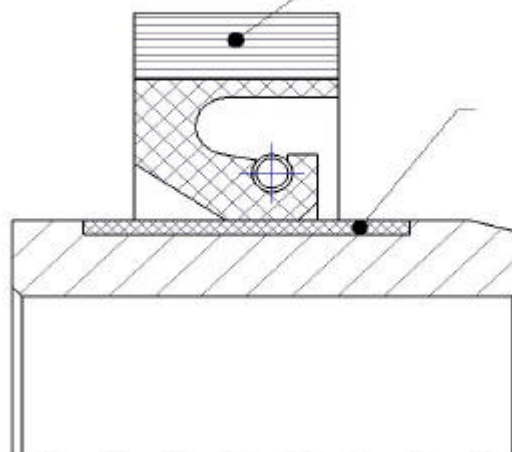


Figure 2

FDI<sup>®</sup> - COATING

# FDI<sup>â</sup> - COATINGS

By coating many mechanical parts of running surfaces for oilseals it is possible to avoid wear and the formation of grooves.

For example:

**shaft journals (also splited)**  
**protecting sleeves (also splited)**  
**shaft protectors (also splited)**  
**shafts for pumps**  
**shafts for engines**  
**shafts for gear boxes**

According to the application there are three different types of coatings available.

In all cases the treated running surfaces are finished specially for use with FDI<sup>â</sup>-**shaft seals** and FDI<sup>â</sup>-**CB-seals**.

Possible diameters: up to 1500 mm.

Three types are available:

**FDI<sup>â</sup>**

<b>coating type:</b>	<b>OC</b> (min. 60 HRC)	<b>MC</b> (min. 60 HRC)	<b>HC</b> (min. 3000 HV)
<b>Base:</b>	<b>Ceramic</b>	<b>Metalcabide</b>	<b>Metalcabide</b>
<b>Wear resistance:</b> (Index MC =100)	<b>120</b>	<b>100</b>	<b>400</b>
<b>Heat conductivity:</b>	<b>poor</b>	<b>very good</b>	<b>very good</b>
<b>Electrical conductivity:</b>	<b>isolation</b>	<b>good</b>	<b>good</b>
<b>Applications:</b>	<b>High stress abrasion-solids</b>	<b>Abrasion and corrosion by fluids and gas</b>	<b>High stress abrasion-solids</b>
<b>Form of supply:</b>	<b>New parts accord. drwg. Repair work on existing parts</b>	<b>New parts accord. drwg. Repair work on existing parts</b>	<b>New parts accord. drwg.</b>
<b>Operating temperature:</b>	<b>- 90°C up to + 500°C</b>		
	Attention ! Please take note of the temperature limit fixed by the used seal.		
<b>Operating speed: Up to</b>	<b>5 m/s</b>	<b>50 m/s</b>	<b>50 m/s</b>

Attention ! Please take note of the speed limit fixed by the used seal !

The data shown above is based on long lasting experience in the manufacturing and use of wear resistant materials. As there are many unknown possible parameters and conditions in practice, which may limit standard performance, it is requested that the user runs practical tests. Except as expressly stated, Friedrich's expressed or implied, is limited to the published selling price of our defective item.

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# FDI<sup>®</sup> - COATINGS

## Application- / performance data sheet

### TOP LINE CLADDING

FDI<sup>®</sup> Type:

**HC**

hardness minimum: 3000 HV

porosity: Non

dilution: ≤ 1%

thickness of cladding: 1 – 3 mm

metalurgical bonding with substrate material

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max. size of items to be protected:

∅ 800 mm length: 3000 mm  
weight: max. 1000 kg

plates: 1000 x 3000 mm  
weight: max. 1000 kg

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substrate: mild steel or stainless

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